

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance
1001 I Street, (MS-25)
PO Box 4025
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

1. Use a recent generation-based study to calculate our current reporting year generation amount, but not officially change our existing Board-approved base year.
 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The shaded cells on these sheets are protected. If you have problems using these sheets, please contact your Office of Local Assistance representative by calling (916) 341-6199.

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name	County		
Unincorporated area of Yolo County	Yolo County		
Authorized Signature	Title		
Type/Print Name of Person Signing	Date	Phone () include Area Code	
Person Completing This Form (please print or type)	Title		
Affiliation:			
Mailing Address	City	State	ZIP Code
1001 Street	Sacramento	CA	95814
E-Mail Address			

Section II: Information for New Generation-Based Study for Existing or New Base Year

Attach additional sheets if necessary—reference each response to the appropriate cell number (e.g., "4").

Note: New base years must be representative of a jurisdiction's disposal and diversion.

1. Current Board-approved existing base year:

1990

2. Proposed new generation-based study year:

2000

3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:

This new generation number reflects the current disposal and the diversion practices in the year 2000. The County has implemented and maintained numerous diversion practices in the last ten years, and is committed to continued diversion program expansion.

4. Enter diversion rate information below.

Diversion rate calculated using existing base year	a. 37 %	Diversion rate calculated using new generation-based study	b. 65 %
For existing base year pounds/person/day based on generation	8.8	For new generation based study pounds/person/day based on generation	19
Residential generation 50 % Non-Residential generation 50 %		Residential generation 16% % Non-Residential generation 84% %	
Population existing generation-based study	21,121	Population new generation-based study	21,450

5. If there is an increase from 4a to 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples (e.g., change in jurisdiction's demographics).

This new diversion rate is the result of a detailed Waste Generation and Diversion Study. The study reflects the concentrated efforts the County and businesses have taken to increase recycling and diversion activities. Several new diversion programs, educational outreach, and technical assistance programs have been implemented in the County, as described in the PARIS section of the Annual Reports. This study also includes new and expanded programs at UC Davis, as well as the County's new roadside rehabilitation programs. CIWMB Staff comments - Although the pounds per person per day is above the national average, the approved population figures used by the Board do not include UC Davis students living on campus or students living off campus that are considered to be a dependant on another individuals tax return. The increase in UC Davis student population from 1990 to 2000 is not captured in this calculation which leads to a higher pounds per person per day figure.

6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)

The County is currently working to expand and improve existing programs. The default adjustment method does not accurately estimate the waste generation for the year 2000 or in future years, particularly in light of the 10 years which have occurred since the initial waste generation study, when not as much was known about the generated waste. The new study enabled the County to gain a clear understanding of the existing disposal and diversion activities from programs described in the PARIS section of the Annual Reports.

7. Disposal Tonnage (enter values):	4285	Residential	24937	Total	26222
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Please select the ONE choice below that best explains your disposal data and complete the required tables.

- a. All tons claimed are from the Board's Disposal System (No diversion required). Go to Section 8.)
- b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at www.ciwmcb.ca.gov/LGCentral/Forms/rvnmrdq.doc)
- c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at www.ciwmcb.ca.gov/LGCentral/Forms/rvhmrdq.doc)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. **Note:** The Board expects the jurisdictions to be able to provide all back-up documentation, if requested. Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes, agricultural wastes, inert solids [e.g., concrete, asphalt, dirt,] white goods, and scrap metal, please identify those programs/waste types and fill out Section 10. Please mark as Attachment 8 all copies of survey forms.

*Please provide detailed Non-Residential waste information in Section 9.

Note: The Board has indicated that it will be scrutinizing total source reduction amounts greater than 5% of total generation. Please be prepared to provide additional details substantiating your claim.

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific Material Type(s) (in one box)	Specific Conservation Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: www.ciwmcb.ca.gov/LGCentral/Part3/Code/Reduse.htm					
Residential Source Reduction Activities					
Backyard composting	0	0.0%			
Grasscycling	0	0.0%			
Other Residential Source Reduction (list each program separately)					
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Subtotal, Residential Source Reduction	0	0.0%			
Residential Recycling Activities					
Curbside Recycling	355	0.6%	Mixed paper and container materials (aluminum, glass, plastic and metal cans).	Source: Hauler/See Appendix E	Tonnage Reports by hauler
Buyback Centers	48	0.1%	Aluminum, plastic and glass redemption containers	Source: Dept. of Conservation/See Appendix G	Dept. of Conservation: Buy-back center tonnage report
Drop-off Centers	200	0.3%	Mixed paper and container materials (aluminum, glass, plastic and metal cans).	Source: County/See Appendix F	Tonnage reports from Yolo County Central Landfill
Other Residential Recycling (list each program separately)					
4020-SP-TRS - Tires	27	0.0%	Auto and truck tires	Source: County	Tonnage reports from Yolo County Central Landfill
4030-SP-WHG - White Goods	54	0.1%	Appliances	Source: County/See Appendix I-1	Tonnage reports from Yolo County Central Landfill
Enter program name					
Enter program name					
Subtotal, Residential Recycling	684	0.9%			

Diversification Activity	Actual Tons	Relative Percent to Total Generation	Specific Material Types (List operation w/multiple materials in one box)	Specific Conversion Factor used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: www.ciwmrb.ca.gov/CCentral/Paris/Code/Reduce.htm	(A)	(A) Total Generation			
Residential Composting Activities					
Green Waste Drop-off	20	0.0%	Grass, tree and shrub clippings	Source: County/See Appendix F	Tonnage Reports, Yolo County Central Landfill
Curbside Green Waste	551	0.7%	Grass, tree and shrub clippings	Source: Hauler/See Appendix E	Tonnage Report from hauler.
Christmas Tree Program	0	0.0%	Christmas Trees	Source: County/See Appendix F	Tonnage Reports, Yolo County Central Landfill
Other Residential Composting (list each program separately)					
Residential Wood Waste Drop-off	6	0.0%	Wood and lumber	Source: County/See Appendix F	Tonnage Reports, Yolo County Central Landfill
Enter program name					
Enter program name					
Enter program name					
Subtotal, Residential Composting	577	0.8%			
Subtotal, Residential Diversion	1261	1.7%			
Non-Residential Source Reduction Activities:					
Non-Residential Waste Audits	9	0.1%		See Section 9	See Section 9
Other Non-Residential Source Reduction (list each program separately)					
1000-SR-XRG Grasscycling, Government	38	0.1%	Grass clippings	0.146 tons/acre/wk. Source: CIWMRB/See Appendix C	Acreage grasscycling report, Yolo County Planning and Public Works Department
1000-SR-XRG School Grasscycling (UCD)	570	0.8%	Grass clippings	0.146 tons/acre/wk. Source: CIWMRB/See Appendix C	Acreage grasscycling report, U.C. Davis
1000-SR-XRG School Grasscycling (other schools)	325	0.4%	Grass clippings	0.146 tons/acre/wk. Source: CIWMRB/See Appendix C	Telephone survey
1000-SR-XRG Business Grasscycling (golf courses and cemeteries)	2476	3.3%	Grass clippings	0.146 tons/acre/wk. Source: CIWMRB/See Appendix C	Telephone survey
Subtotal, Non-Residential Source Reduction	3500	4.9%			
Non-Residential Waste Audits	128	0.2%		See Section 9	See Section 9
Other Non-Residential Recycling (list each program separately)					
2050-RC-SCH School Recycling (UCD)			Mixed paper, cardboard and container materials	Source: UC Davis/See Appendix H	U.C. Davis report
4060-SP-CAR- Asphalt Recycling	921	1.2%	Aluminum, glass, plastic and metal cans	Source: 4-yr avg. 150 lbs/cb ft. Source: CIWMRB/See Appendix I-2	Yolo County Planning and Public Works Department
4060-SP-CAR- Concrete/Asphalt/Rubble Recycling	30810	40.6%	Asphalt recycling from roads rehabilitation projects	Source: County, 4-year average/See Appendix I-1	YCCCL Tonnage Reports
Subtotal Non-Residential Recycling	33231	43.8%			

Diversion Activity	Actual tons	Relative Percentage to Total Generation (A)	Specific Material Type(s) (List operations with multiple materials in one box)	Type of Record and Location of Record	Specific Conversion Factor (used if any) and Source
Please use the Board's program types. The program type glossary is online at: www.dcmib.ca.gov/CGCentral/Part5/Co des/Reduce.htm					
Non-Residential Composting Activities					
Non-Residential Waste Audit*	103	0.9%			
Other Non-Residential Composting (list each program separately)					
Commercial Wood Waste Drop-off	30	0.0%	Wood and lumber	Source: County/See Appendix F	YCCCL Tonnage Reports
Commercial Greenwaste Drop-off	27	0.0%	Grass, tree and shrub clippings	Source: County/See Appendix F	YCCCL Tonnage Reports
3050-CM-SCH - School Composting (UCD)	1838	2.4%	Straw, manure, grass, tree and shrub clippings	Source: UC Davis/See Appendix H	U.C. Davis report
Subtotal Non-Residential Composting	1998	2.8%			
Subtotal Non-Residential Diversion Residential/Non-Residential Composting	3876	51.0%			
Diversion Activities					
ADC	5	0.0%	Green material	Actual tonnage from landfill report	Landfill reports at YCCL
Siddege					
Scrap Metal	444	0.6%	Scrap metal recycling at UCD and YCCCL	See Appendices H & I-1	UCD and YCCCL tonnage reports
Construction and Demolition	9238	12.2%	C&D materials from UC Davis	See Appendix H	UCD quantity reports
Landfill Salvage					
Subtotal Residential/Non-Residential Diversion	9387	12.8%			
Total Res/Non-Res Source Reduction Tons	3590	4.8%			
Total Diversion Tons	49699	65.5%			
Total Disposal Tons from Sec.7	26222	34.5%			
Total Generation Tons (Div+Dis)	7592				
Diversion Rate		65%			

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.

(Table will perform all addition calculations).

Type of Non-Residential Generator	Audit Reference Number	Specific/Major Diversion Activities include (e.g. paper recycling, grasscycling) (list activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) Onsite (O) Other —
County Roads Dept. & YCCL		Concrete and Asphalt recycling	32204			32204	42.4%	O
University		C&D, paper, cardboard, cans, bottle, metals and greenwaste recycling, composting, grasscycling	570	10753	1838	13613	17.3%	O
Golf Course		Grasscycling	835			835	1.1%	O
Golf Course		Grasscycling	812.3			812.3	1.1%	O
Golf Course		Grasscycling	265.7			265.7	0.3%	O
Golf Course		Grasscycling	242.9			242.9	0.3%	O
Golf Course		Grasscycling	197.4			197.4	0.3%	O
Cemetery		Grasscycling	122.6			122.6	0.2%	O
School		Grasscycling	81.0			81	0.1%	O
School		Grasscycling	60.7			60.7	0.1%	O
Totals			3187.7	42957.3	1838	47983	63.2%	

Also provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type, and applicable conversion factors/sources. Include copies of survey form(s) used.

Summarize the non-residential diversion activities for the top 10 generators quantification methodology, and applicable conversion factors and sources (e.g. cardboard recycling; quantified by monthly tonnage receipts provided by the contact person at the business).

See appendices

County Roads department: Distance of roads where road base recycling took place was gathered from Public Works department reports. The volume of in place road base was calculated. The conversion factor of 150 lbs. per cubic foot was applied. The source of this conversion factor is the Asphalt Institute. Concrete and Asphalt recycled at the Yolo County Central Landfill is weighed and reports have been kept since Feb. 1997. Four years of tonnage data were averaged to derive a representative amount.

University: Paper, cardboard, cans & bottles, metals, greenwaste, and composting used data obtained in tonnage reports from recyclers who take the material. C&D recycling weights were obtained by grinder survey. Grasscycling was calculated by applying the conversion factor of 7.6 (source CIWMB) to the acres grasscycled of 75.

All other grasscycling: A survey of each generator was performed. The surveyor asked each contact does grasscycling occur at the facility? how many acres make up the facility? how many of those acres were considered "mowable" acres? how many weeks per year are the mowable acres are actually mowed? and then applied the conversion factor of .146 tons per acre per week (source CIWMB) mowed. The contact also asked where the acres value came from i.e. blueprint maps, city plans,

10. For each restricted waste type (i.e., agricultural waste, inert solids, [e.g. concreter, asphalt, dirt, etc.] scrap metals and white goods [PRC section 41781.2]) and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table.

Note: program name refers to one specific diversion program for that waste type (e.g., "Diversion conducted by city public waste dept.").

Restricted Waste Type	Specific Program Name	Year Started	Tonnage
White Goods	► White goods/appliance recycling at Yolo County Central Landfill	1992	54
Scrap Metal	► Scrap metal recycling at Yolo County Landfill	1992	52
Inert Solids	► Inerts recycling at Yolo County Central Landfill	1995	1394
Inert Solids	► Road Rehabilitation by Yolo County Public Works, Roads Dept.	1998	30810
Inert Solids	► UC Davis C&D Recycling Program	early 90's	6319
Pull Down for Waste Types	►		

b. If the diversion program started before January 1, 1990 - and if documentation on the program and waste type has not been approved by the Board - on a separate sheet marked "Attachment 10b", provide the documentation that indicates:

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion (PRC sec. 41781.2 [c] [1]).

▪ That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (**Note:** this criterion is applicable to the entire jurisdiction, not to individual programs (PRC sec. 41781.2 [c] [2]). Please include documentation.

- That the jurisdiction is implementing, and will continue to implement, the diversion programs in its source reduction and recycling element.

Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.

Instead please provide date of Board approval of previously submitted information.

If documentation is not available, go to 10d.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New Base Year or Reporting Year Diversion Tonnage
Inert Solids	► UC Davis Inert Recycling Program	2919
Pull Down for Waste Types	►	
Pull Down for Waste Types	►	
Pull Down for Waste Types	►	
Pull Down for Waste Types	►	
Pull Down for Waste Types	►	
Pull Down for Waste Types	►	

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. **Note:** Only the difference between the new base year//reporting year and 1990 can be counted in the diversion rate calculation.

Restricted Waste Type	Specific Program Name	New Base Year or Reporting Year Tonnage	1990 Diversion Tonnage	Difference
Scrap Metal	► Scrap Metal Recycling at UC Davis	620	228	392
Pull Down for Waste Types	►			
Pull Down for Waste Types	►			
Pull Down for Waste Types	►			
Pull Down for Waste Types	►			

Appendix B

Diversions Quantification and Methodology for Yolo County Unincorporated in 2000

Component/Program	PARIS	Tons	% WG	% Res	Res (tons)	Material	Method/Conversion	Appendix	Business Type
Source Reduction									
Xeri/Grasscycling	1000	835.10	1%	0%	0	GW	110 acs x 52 wks x 0.146 (tons/acre/wk)	C	Golf Course
Xeri/Grasscycling	1000	812.3	1%	0%	0	GW	107 acs x 52 wks x 0.146 (tons/acre/wk)	C	Golf Course
Xeri/Grasscycling	1000	570.0	1%	0%	0	GW	75 acs x 52 wks x 0.146 (tons/acre/wk)	C	University
Xeri/Grasscycling	1000	265.7	0%	0%	0	GW	35 acs x 52 wks x 0.146 (tons/acre/wk)	C	Golf Course
Xeri/Grasscycling	1000	242.9	0%	0%	0	GW	32 acs x 52 wks x 0.146 (tons/acre/wk)	C	Golf Course
Xeri/Grasscycling	1000	197.4	0%	0%	0	GW	26 acs x 52 wks x 0.146 (tons/acre/wk)	C	Golf Course
Xeri/Grasscycling	1000	122.6	0%	0%	0	GW	20 acs x 42 wks x 0.146 (tons/acre/wk)	C	Cemetery
Xeri/Grasscycling	1000	81.0	0%	0%	0	GW	15 acs x 37 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	60.7	0%	0%	0	GW	8 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	45.6	0%	0%	0	GW	6 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	38.0	0%	0%	0	GW	5 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	38.0	0%	0%	0	GW	5 acs x 52 wks x 0.146 (tons/acre/wk)	C	Parks Dept.
Xeri/Grasscycling	1000	30.4	0%	0%	0	GW	4 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	30.4	0%	0%	0	GW	4 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	21.6	0%	0%	0	GW	4 acs x 37 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	15.2	0%	0%	0	GW	2 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Xeri/Grasscycling	1000	1.9	0%	0%	0	GW	25 acs x 52 wks x 0.146 (tons/acre/wk)	C	School
Total Source Reduction	3,409	4%		0					
Recycling									
Residential Curbside	2000	355	0%	100%	355	Multiple	Hauler report	E	Waste hauler
Residential Drop-Off (YCCCL)	2010	200	0%	100%	200	Multiple	YCCCL report		Landfill
Buyback Centers	2020	48	0%	100%	48	CRV	9/11/01 DOC letter	G	State
Other/Business Recycling	3222	0%	0%	0	0	Multiple	See Appendix D	D	
School Recycling (UCD)	2050	921	1%	0%	0	Multiple	UCD report	H	University
Total Recycling	1,846	2%		603					
Composting									
Residential Greenwaste Drop-off	3010	20	0%	100%	20	GW	Drop off in Clarksburg and YCCCL	F	Landfill
Residential Woodwaste Drop-off	4050	6	0%	100%	6	Wood	Drop off at YCCCL	F	Landfill
Curbside Greenwaste	3000	551	1%	100%	551	GW	Hauler report	E	Waste hauler

Appendix B

Diversion Quantification and Methodology for Yolo County Unincorporated in 2000

Agenda Item
Attachment 2b

Component/Program	PARIS	Tons	% WG	% Res	Res	Material	Method/Conversion	Appendix	Business Type
Christmas Tree Recycling		0	0%	100%	0	GW	YCCl report	F	Landfill
Commercial Greenwaste Drop-off	3030	27	0%	0%	0	GW	YCCl report	F	Landfill
Commercial Woodwaste Drop-off	4050	30	0%	0%	0	Wood	YCCl report	F	Landfill
School Composting	3050	1,838	2%	0%	0	Manure	UCD report	H	University
Total Composting	2,472	3%			577				
Special Waste									
Tire Recycling	4020	27	0%	100%	27	Rubber	YCCl report		Landfill
White Goods	4030	54	0%	100%	54	Appliances	YCCl report	I-1	Landfill
Scrap Metals Processing (YCCl)	4040	52	0%	100%	52	Metal	YCCl report	I-1	Landfill
Scrap Metals Processing (UCD)	4040	392	1%	0%	0	Metal	UCD report	H	University
Inerts Reuse (UCD Landfill)	4060	2,919	4%	0%	0	Inerts	UCD report		Landfill
C&D (UCD)	4060	6,319	8%	100%	6,319	Inerts	UCD report	H	University
Inerts Reuse YCCl	4060	1,394	2%	0%	0	Inerts	YCCl report	I-1	Landfill
Yolo County Road Rehabilitation	4060	30,810	41%	0%	0	Inerts	Yolo County Public Works Roads Dept.	I-2	County
ADC		5	0%	0%	0	ADC	DBR	F	County
Total Special Waste	41,971	55%			6,452				
TOTAL DIVERSION		49,698	65%		7,631				
DISPOSAL									
Altamont Landfill (Alameda)		0	0%	0	0				
Azusa Land Reclamation (L.A.)		8	0%	0	0				
Sacramento Co. Landfill		345	0%	0	0				
L&D Landfill (Sac. Co.)		398	1%	0	0				
Anderson Solid Waste Disposal		134	0%	0	0				
(Shasta Co.)		25	0%	0	0				
Patroto Hills Landfill (Solano)		16,430	22%	4,285					
Yolo County Central Landfill		9,780	13%	0					
UC Davis Landfill		85	0%	0					
Ostrom Road Landfill (Yuba/Sutter)									
Disposal Modification for Rumsey Indian Reservation		(984)							
TOTAL DISPOSAL	26,222	35%			4,285				
TOTAL GENERATION	75,920				11,916	21,450 (Y2K Population)			19.4
DIVERSION RATE	65.5%				15.7%	Residential % of Waste Generation			
Abbreviations Used are:	CRV	California Redemption Value	Res	Residential					
DOC	Department of Conservation	UCD	UC Davis						
GW	Green Waste	YCCl	Yolo County Central Landfill						

**Board Meeting
September 17-18, 2002**

**Agenda Item
Attachment 2b**

Other/Business Source Reduction and Recycling

Reference Number	Business Type	Activity Description	Number of Employees	Source Reduction	Diversion (weight in pounds)	Composting	Material Type (category)	Conversion Factor (weight per count)	Source	Diversion Pounds	Diversion Tons
									Per Year	Per Year	Per year
1 Whinery		occ recycling wine bottle recycling Fe scrap recycling recycling pallet - burned toner/printer cartridge recycling op doubles/scratch reusing binders reuse of plastic 55 gal drum	25.0	12,019.00	25.0 25.0 25.0 25.0 25.0 25.0 25.0	6,488.00 2,400.00 180.00 550.00 10.00 60.00 60.00	Glass Metal Other Organic Other Paper Other Plastic	50.0lbs/cy 1.0lbs/ea 90lbs/cy 40lbs/ea 2.5lbs/ea 0.77lbs/gal 1.63lbs/binder 15lbs/ea	USEPA USEPA USEPA USEPA USEPA Actual (ave) Weight UCA/ars	12,019.00 6,480.00 2,400.00 180.00 550.00 10.00 45.00	6.01 3.24 1.20 0.09 0.28 0.01 0.02
2 mini market		occ recycling opp recycling occ reuse	5	1,544.40	5	1,544.40	Paper	2.2lbs/med box	USEPA	1,544.40	0.84
3 fire department		occ recycling occ reuse	10	228.80	10	228.80	Paper	2.2lbs/med box	USEPA	1,258.40	0.63
4 post office		occ recycling occ reuse	2	650.00	2	650.00	Paper	2.2lbs/med box	USEPA	800.80	0.40
5 marina		55 gal drum recycling scrap metal recycling occ reuse	3	400.40	3	400.40	Paper	2.2lbs/med box	USEPA	400.40	0.20
6 dental office		occ recycling file purge - recycling occ reuse	2	228.80	2	228.80	Paper	2.2lbs/med box	USEPA	228.80	0.11
7 market		occ recycling pallet recycling use of totes occ reuse	2	114.40	2	114.40	Paper	100lbs/yr	Statement	100.00	0.05
8 drayage & truck repair		occ recycling pallet recycling use of totes occ reuse	16	1,664.00	16	2,860.00	Paper	2.2lbs/med box	USEPA	114.40	0.06
9 bait & tackle shop		occ recycling occ reuse	7	514.80	7	514.80	Paper	2.2lbs/med box	USEPA	52.00	0.03
10 gas station & mini mart		occ recycling occ reuse	5	228.80	5	228.80	Paper	2.2lbs/med box	USEPA	285.20	0.25
11 "corner" Store		occ recycling occ reuse	5	1,029.60	5	1,029.60	Paper	2.2lbs/med box	USEPA	400.80	0.20
12 take-out restaurant		1 gal container reuse ferrous can recycling (15. oz) reuse of 5 gal buckets	3.0	1,144.00	3.0	1,144.00	Paper	2.2lbs/med box	USEPA	1,029.60	0.51
13 gas station & mini mart		occ recycling occ reuse	4	114.40	4	114.40	Paper	2.2lbs/med box	USEPA	1,144.00	0.57
		1 gal container reuse	4	218.40	4	218.40	Paper	2.2lbs/med box	USEPA	228.80	0.11
		ferrous can recycling (15. oz)	3.0	332.80	3.0	332.80	Metal	0.113lbs/13oz cn	USEPA	520.00	0.26
		reuse of 5 gal buckets	3.0	2.160	3.0	1,144.00	Plastic	1.9lbs/ea	USEPA	686.40	0.34
		occ recycling occ reuse	3	1,029.60	3	1,029.60	Paper	2.2lbs/med box	USEPA	21.60	0.01
		1 gal container reuse	4	457.60	4	457.60	Paper	2.2lbs/med box	USEPA	2,826.80	1.41
		ferrous can recycling (15. oz)	4	7100.00	4	7100.00	Paper	7100lbs/yr	newee Written Statement	1,148.20	0.74
		reuse of 5 gal buckets	3	3,000.00	3	3,000.00	Paper	3,000lbs/yr	newee Written Statement	7,100.00	3.55
		occ recycling occ reuse	45.0	47,000.00	45.0	47,000.00	Paper	47,000lbs/yr	newee Written Statement	30,000.00	1.50
		1 gal container reuse	45.0	47,000.00	45.0	47,000.00	Paper	47,000lbs/yr	newee Written Statement	47,000.00	23.50

Appendix D, Page

Offices/Business Source Reduction and Recycling										
Reference Number	Business Type	Activity Description	Diversion (weight in pounds)			Conversion Factor (weight per count)	Source	Diversion Pounds per year	Diversion Tons per year	
			Number of Employees	Source Reduction	Composting					
14 Agricultural/Seed Genetics	shrink wrap recycling	45.0	65.00			0.65lbs/yr	Interviewee Written Statement	65.00	0.03	
	scraps wood recycling	45.0	300.00	216.00	Other Organic	300lbs/yr	Interviewee Written Statement	300.00	0.15	
	yard waste	45.0	20.00		Yard Waste	180lbs/cy	USEPA	216.00	0.11	
	toner/pointer cartridge recycling	45.0	300.00		Other	2.5lbs/ea	USEPA	20.00	0.01	
	reuse or shredded tp	45.0	720.00		Paper	300lbs/yr	Interviewee Written Statement	300.00	0.15	
	reused of 5 gall buckets	45.0	3.60		Plastic	0.9lbs/ea	UIC Aish	3.60	0.00	
	reuse of durable pallets	45.0	1,023.60	216.00	Other Organic	(# @ 1lb/5(140lbs))	CIMB	720.00	0.36	
15 thrift store, gifts	occ reuse	2	54.80		Paper	2.2lbs/med box	USEPA	58,724.60	28.36	
16 self storage	occ recycling	2	514.80		Paper	2.2lbs/med box	USEPA	514.80	0.26	
	occ reuse	2	514.80		Paper	2.2lbs/med box	Statement	1,529.60	0.76	
	donation of clothing & housewares	2	500.00		Mix	500lbs/yr		500.00	0.25	
	opp recycling	3	260.00		Paper	1lb/ea	Actual (ave) weight	260.00	0.13	
17 social services	occ reuse	3	228.80		Paper	2.2lbs/med box	USEPA	228.80	0.11	
	op duplexing	3	52.00		Paper	5lbs/500sheets	USEPA	52.00	0.03	
18 Number transport	wood scrap recycling	10	280.80	280.00	Other Organic	200lbs/yr	Statement	2,000.00	1.00	
	lire recycling	10	600.00		Inorganic	75lbs/sea	USEPA	600.00	0.30	
	reuse 1 gal containers	1.0	109.20		Plastic	0.4lbs/ea	USEPA	3,157.60	1.53	
19 Grape growers	occ recycling	2.0	354.00		Paper	50.0lbs/cy	USEPA	109.20	0.05	
	pp recycling	2.0	1,779.00		Paper	10.01 lbs/130al	USEPA	108.20	0.05	
20 Architectural office / carmarita	wi double scratch	5.0	30.00		Metal	90lbs/500sheets	USEPA	354.00	0.18	
21 Farm Labor Contractors	occ recycling	6	20,800.00		Paper	5lbs/500sheets	USEPA	1,779.00	0.89	
	grease recycling	6	7,450.00		Paper	90lbs/cy	USEPA	2,333.00	1.07	
	use of totes	6	1,144.00		Paper	5 lbs/m	USEPA	1,779.00	0.89	
22 convenience store	opp duplexing	6	26.00		Paper	2.2lbs/med box	Statement	300.00	0.15	
23 concrete mix materials	scrap metal recycling	2.0	26.00		Paper	100lbs/cy	USEPA	20,800.00	10.40	
	wl double scratch	2.0	90.00		Paper	2.2lbs/med box	USEPA	7,450.00	3.73	
24 Gravel Extraction	No applicable S/R activities	1	60.00		Paper	90lbs/500sheets	USEPA	1,144.00	0.57	
25 Insurance agency	occ recycling	5	1,258.40		Paper	5 lbs/m	USEPA	26.00	0.01	
	occ reuse	5	286.00	1,258.40	Paper	2.2lbs/med box	Statement	26.00	0.01	
26 market	mp recycling	4.0	1,218.00	1,218.00	Paper	1.8lbs/gal	USEPA	3,902.00	1.95	
	opp double/scratch	4.0	1,218.00		Paper	1.8lbs/gal	USEPA	1,258.40	0.63	
	donation of books	4.0	300.00		Paper	2.5lbs/ea	Interviewee Statement	286.00	0.14	
	donation of magz	4.0	480.00		Paper	0.3lbs/ea	USEPA	343.20	0.17	
27 Library	reuse occ	4.0	686.00		Paper	2.2lbs/med box	USEPA	915.20	0.46	
28 propane	opp duplexing	10	26.00		Paper	5lbs/500sheets	USEPA	26.00	0.01	
	occ recycling	6	26.00	1,258.40	Paper	2.2lbs/med box	USEPA	26.00	0.01	
	occ reuse	6	343.20	1,258.40	Paper	2.2lbs/med box	Statement	2,516.80	1.26	
29 convenience store	sawdust & wood scrap recycling	2	1,000.00	1,258.40	Paper	100lbs/500sheets	USEPA	1,000.00	0.50	
	opp duplexing	2	26.00	1,258.40	Paper	600lbs/yr	Statement	26.00	0.01	
	wood scrap reuse	2	600.00	1,258.40	Paper	Other Organics	USEPA	600.00	0.30	
30 number planning	occ recycling	6	228.80	228.80	Paper	2.2lbs/med box	USEPA	228.80	0.11	
31 gas station	occ reuse	6	228.80	228.80	Paper	2.2lbs/med box	USEPA	228.80	0.11	
	Total		139,065.00	216.00				1,926.00	0.91	

Board Meeting
September 17-18, 2002

Appendix D

Other Business Recycling, Additional Audits

Agenda Item
Attachment 2b

Reference Number	Business Type	Activity Description	Number of Employees	Source Reduction	Diversion (weight in pounds)	Material Type (category)	Conversion Factor (weight per count)	Source	Diversion Pounds per year	Diversion Tons per year
	farm machinery and parts sales and service	Medium OCC recycled		4,004.00	paper	2.2 lbs/medium box	U.S. EPA	4,004.00	2.00	
	farm machinery and parts sales and service	Medium OCC reused		5,280.00	paper	2.2 lbs/medium box	U.S. EPA	5,280.00	2.64	
	farm machinery and parts sales and service	Office paper reused as scratch or double-sided		260.00	paper	5 lbs/ream	U.S. EPA	260.00	0.13	
47	farm machinery and parts sales and service	OCC and office paper picked up and recycled by recycling service		46,000.00	paper	23 tons/year	business estimate	46,000.00	23.00	4.77
	rice packaging and distribution	Office paper picked up and shredded and sent by Shred-Away		1,200.00	paper	100 lbs/month	business estimate	1,200.00	0.60	
	rice packaging and distribution	Mill trash/dust, dirt, clods, powder) to recondition soil			other organic	3624 tons/year	from business records			
	rice packaging and distribution	Watergrass (weeds from rice fields)sold for bird food			other organic	207 tons/year	from business records			
	rice packaging and distribution	Bran used as feed additive in livestock feed			other organic	21171 tons/year	from business records			
	rice packaging and distribution	Dryer trash(dryer debris and dust) sold for use in reconditioning soil			other organic	18 tons/year	from business records			
	rice packaging and distribution	Rice hulls sent to cogeneration plant for burning			other organic	65,688.5 tons/year	from business records			
	rice packaging and distribution	Computers donated		375.00	other	30 lbs/computer	U.S. EPA	375.00	0.19	
	rice packaging and distribution	Toner cartridges returned		50.00	other	2.5 lbs/cartridge	U.S. EPA	50.00	0.03	
70	rice packaging and distribution	Pellets recycled		125.00	41,200.00	41,200.00	U.S. EPA	41,625.00	41,625.00	23.81
	bulk oil and commercial fuel station	Office paper used for scratch or double-sided		6,000.00	paper	5 lbs/ream	U.S. EPA	6,000.00	3.00	
	bulk oil and commercial fuel station	Pellets given away for reuse			other organic	40 lbs/pallet	U.S. EPA	26.00	0.01	
80	bulk oil and commercial fuel station	Mixed paper recycled		1,200.00	1,200.00	1,200.00	U.S. EPA	1,200.00	0.60	3.61
	seed research	Uncompacted OCC recycled			paper	363.5 lbs/cy	U.S. EPA	13,086.00	6.54	
	seed research	Trimmings and prunings composted			paper	100 lbs/cy	U.S. EPA	9,000.00	4.50	
	seed research	Truck tires recycled			other organic	100 tons/year	business estimate	200,000.00	100.00	
	seed research	reuse packing peanuts			other plastic	75 lbs/tire	U.S. EPA	3,000.00	1.50	
	seed research	Computerized changes/paper reduction			paper	2000 lb/yr	business estimate	2,000.00	1.00	
	seed research	Medium OCC reused			paper	5 lbs/ream	U.S. EPA	780.00	0.39	
	seed research	Switched to more durable plastic sheeting in greenhouses			paper	2.2 lbs/medium box	U.S. EPA	2,288.00	1.14	
	seed research	Red soil sent out to be resold and given away			plastic	200 lb/roll	business estimate	104,000.00	52.00	
	seed research	Black soil resold			inorganic	2392 lbs/cy	Tellus			
	seed research	Computers donated to schools			inorganic	2392 lbs/cy	Tellus			
88	seed research	Office paper reused as scratch or double-sided		1,500.00	1,500.00	1,500.00	U.S. EPA	1,500.00	0.75	0.75
	wholesale seeds	recycle seed oak			paper	5 lbs/ream	business estimate	355,854.00	177.83	
99	wholesale seeds	recycle office paper		104.00	750.00	750.00	U.S. EPA	104.00	0.05	0.05
	county jail	reuse paper for scratch and doubleside			paper	7.45 lb/gal	U.S. EPA	750.00	0.38	
	county jail	reuse OCC for shipping			paper	.77lb/gal	U.S. EPA	854.00	0.43	
	county jail	reuse newspapers			paper	.77lb/gal	U.S. EPA	13,213.20	6.61	
	county jail	reuse 55 gal drums			paper	50.08 lb/cy	U.S. EPA	11,891.88	5.95	
	county jail	compost grass			paper	1 lb/ea	Tellus	7,800.00	3.90	
	county jail	grasscycle			plastic	15 lb/ drum	business estimate	14,550.00	7.28	
	county jail	reuse pallets			yardwaste	25 lb/33 gal	UCLA	180.00	0.09	
	county jail	old uniforms used as rags			other organic	25 lb/33 gal	field study	5,200.00	2.60	
	county jail	toner cartridges returned			other organic	40 lbs/pallet	field study	2,600.00	1.30	
	county jail	toner cartridges returned			other	2 lb/uniform	US EPA	2,704.00	1.35	
	county jail	reuse folders, envelopes			paper	2.5 lbs/cartridge	US EPA	240.00	0.12	
	county jail	recycle grease			paper	5 lbs/cartridge	US EPA	105.00	0.05	
	county jail	old food given to animal shelter			other organic	0.3 lb/bleach	business estimate	520.00	0.26	
	county jail	old food given to animal shelter			other organic	7.45 lb/ gal	US EPA	450.00	0.23	
	county jail	old food given to animal shelter			other organic	30 lb/33 gal	field study	21,320.00	106.6	
		Total						360	0.18	
								81,144.08	40.57	
								482,047.08	241.02	

UNIVERSITY OF CALIFORNIA, DAVIS

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FACILITIES SERVICES DEPARTMENT
GROUNDS DIVISION
R4 RECYCLING PROGRAM
TELEPHONE: (530) 752-6970
FAX: (530) 752-9935

ONE SHIBLIS AVENUE
DAVIS, CALIFORNIA 95616-8654

August 17, 2001

David A. Langer
Ecotelesis
3977 26th Street, Suite 2
San Francisco, California 94131

Re: Recycling Numbers for the University of California, Davis

Dear Mr. Langer,

Per your request, these are the tonnages for the recycled materials during 2000 by the University of California, Davis:

Mixed Paper: 590 tons ✓

Cans and Bottles: 96.3 tons

Metals: 620 tons ✓

Green Waste: 202 ton ✓

Cardboard: 235 tons ✓

Organic (Straw and Manure): 1,636 ton ✓

Construction and Demolition of the Sewage Treatment Plant: 6,319 tons (estimated) ✓

Total Acres/ ✓ Footage of grass area that is grasscycled: 75 acres

Please give me a call at (530) 752-6970 if you have any further questions. Thank you.

Sincerely,

Lin King
Program Manager
R4 Recycling Program

Xc: Sal Gonito, Facilities

Post-it® Fax Note		7671	Date	9/17	# of pages
To	Trace	From	Lin King		
Dept.	Ecotelesis	Co.	UC Davis		
	530 752-3601 <th>Phone #</th> <td>530-752-6970</td> <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>	Phone #	530-752-6970		
Fax #		Fax #			